Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1.   (Currently Amended) A method of notifying changes of state in the resources of a network to at least one application of an application layer of the network and adapted to execute on the network, the method comprising the following steps:

registering said at least one application of a node with a change-of-state notification means provided on the node,

~~extracting~~extracting routing information from a transport or network layer of the network, ~~using~~with said change-of-state notification means with which the application has previously been registered; and

~~forwarding~~forwarding said routing information extracted by the notification means to the ~~application.~~application, wherein

the steps are performed within a same node of the network.

2.   (Currently Amended) A change-of-state notification method according to claim 1, wherein, during ~~a~~the registering ~~prior registration~~step by which the application was registered with the change-of-state notification means, a fraction of nodes and/or of links of the network is selected so that the information that is extracted and forwarded to said application is routing information relating to said selected fraction of the nodes and/or of the links.

3.   (Previously Presented) A change-of-state notification method according to claim 1, wherein the network is an ad-hoc network, and the routing information is extracted by interrogating a routing protocol implemented in the ad-hoc network.

4.   (Previously Presented) A change-of-state notification method according to claim 3, wherein the routing information is extracted from routing tables exchanged by a proactive routing protocol of the ad-hoc network, in particular the OLSR protocol.

5.   (Previously Presented) A change-of-state notification method according to claim 1, further including a step of dynamically extending the notification means during which new extraction rules are introduced into the notification means corresponding to new routing information that has been deployed on the network.

6.   (Currently Amended) A computer-readable recording medium storing a computer program for performing a change-of-state notification method, the method executed by a computer, wherein the program includes, for an application of a node that has previously been registered with the program, instructions causing the computer ~~to~~to:

      operate as means for registering the application of the node with a change-of-state notification means provided on the node;

      operate as means for extracting routing information from a transport or network layer of the network, ~~and~~ with said change-of-state notification means; and

      operate as means for forwarding the extracted routing information to the ~~application.~~application, wherein

      registering of the application of the node, extracting routing information and forwarding the extracted routing information are performed within a same node of the network.

7.   (Currently Amended) A system for notifying changes-of-state in the resources of a network, the system comprising the network and at least one application adapted to execute on the network, and including a computer program installed on at least one node of the network, the program including, for an application of the node that has previously been registered with the program, instructions for causing the node ~~to~~to:

-3-

operate as means for registering the application of the node with a change-of-state notification means provided on the node;

operate as means for extracting routing information from a transport or network layer of the ~~network,~~network, with said change-of-state notification means; and

operate as means for forwarding the extracted routing information to the ~~application.~~application, wherein

the registering of the application of the node, extracting routing information and forwarding the extracted routing information is performed within a same node of a network.

8. (Currently Amended) A ~~Node~~node of a network, comprising routing applications, the node storing a computer program including, for an application of the node that has previously been registered with the program, instructions for causing the node ~~to~~to:

operate as means for registering of the application of the node with a change-of-state notification means provided on the node;

operate as means for extracting routing information from a transport or network layer of the ~~network,~~network with said change-of-state notification means; and

operate as means for forwarding the extracted routing information to the ~~application.~~application, wherein

the registering of the application of the node, extracting routing information and forwarding the extract routing information are performed within the node.